

WHAT IS CLAIMED IS:

1. A hands-free handset for a cordless telephone adapted for household use, said cordless telephone including a base unit and a handset, said handset comprising:

5 an automatic receiving and automatic hanging-up control loop for detecting a ringer signal to control and realize the automatic receiving function, detecting a busy signal to realize the function of automatically hanging up after the other party hangs up, controlling frequencies of reception and transmission circuits so as to avoid interfering channels; verifying a code of said handset to eliminate error actions; and detecting use state of a battery;

10 a voice loop for demodulating a signal received by a medium-frequency loop for conversion back to a voice signal for subsequent amplification and output, amplifying and modulating a voice signal received by a microphone and outputting the same to the medium-frequency loop for amplification and transmission; and detecting intensity of voices of both parties to realize an automatic gain modulating function and to reduce edge sounds to a certain extend; and

15 a port switching device for realizing switching between an external speaker and an external microphone, that is, automatically using a speaker and a microphone built in said handset prior to connection of said external speaker and said external microphone to said handset, and automatically cutting off said speaker and said microphone built in said handset and switching to said external speaker and said external microphone after connection of said external speaker and said external microphone to said handset, thereby
20 realizing a hands-free function.

2. The hands-free handset for a cordless telephone according to Claim 1, wherein said automatic receiving and automatic hanging-up control loop includes a microprocessor chip under serial number WEN-9420A and other external components.